L 28040-66

ACC NR: AP5027003

2

slits of two diaphragms. The device was shown in a photo and its action was explained. A MF-4 microphotometer was used for determining the density distribution recorded by the film. Then, the experimental data were analyzed and the results calculated. An example of the beam density distribution in a transverse phase space was mapped out in a diagram. The results obtained under different conditions and at the currents varying from 350 to 480 ma were summarized in a table. The current characteristics were plotted for four-and two-dimensional phase spaces and for seven various operating conditions. The analysis of curves showed that, in accordance with Liouville's Theorem, the focussing voltage produced no effect upon the phase space. The dependence of the current on the two-dimensional phase space was more expressive. The highest current density obtained at 400 ma was equal to 120 ma/cmmrad. The thanks were expressed to I. M. Kapchinckiy and V. A. Batalin for the discussion of the results obtained in the experiments. Orig. art. has: 5 figures and 9 formulas.

SUB CODE: 18 / SUBM DATE: / llaug64 / ORIG REF: 002 / OTH REF: 004

Card 2/2 (C

CIA-RDP86-00513R001550920011-7 "APPROVED FOR RELEASE: 08/23/2000

<u>U1242-67</u> EWT(1)

ACC NR. AT6031241

SOURCE CODE: UR/0000/66/000/000/0001/0014

AUTHOR: Sivkov, Yu. P.

ORG: none

TITLE: Characteristics of ion beam focusing by stationary linear fields

SOURCE: USSR. Gosudarstvennyy komitet po ispol'zovaniyu atomnoy energii. Doklady, 1966. Nekotoryye osobennosti fokusirovki ionnykh puchkov lineynymi statsionarnymi polyami, 1-14

TOPIC TAGS: ion beam, ion beam focusing, stationary linear field, phase space, phase space transformation, simplex transformation, simplex coordinate transformation, invariant, invariant system, integral invariant, four dimension ellipsoid

ABSTRACT: Focusing of ion beams by time-independent fields is regarded as a transformation of four-dimensional phase spaces containing representative particle points. A system of invariants has been erected which is the consequence of integral invariants in dynamic equations connecting the coefficients of four-dimensional ellipsoids in the phase space associated with linear simplex transformation of

Card 1/2

ACC NR: AT603	1241				
within whose l possible. The	limits a simp e author is gr	lex transform reatly indebted	ation of one ellin	Subdivided into class soid into another is Gorshkov for his val	•
SUB CODE: 1	2,20/ SUBM	DATE: none	/ ORIG REF: 0	02/ OTH REF: 003	,
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TENERAL PROPERTY OF THE PROPER EWI(I)/FWT(m) UF(m) ACC NR: AT6031752 SOURCE CODE: UR/3092/66/000/004/0003/0022 AUTHOR: Ivanov, N. F.; Sivkov, Yu. P.; Solnyshkov, A. I. ORG: none TITLE: Characteristics of the ion beam produced by the injector of a linear accelera SOURCE: Moscow. Nauchno-issledovatel'skiy institut elektrofizicheskoy apparatury. Elektrofizicheskaya apparatura, no. 4, 1966, 3-22 TOPIC TAGS: ion beam, linear accelerator, plasmatron, preinjector ABSTRACT: The structure of a beam of ions with an energy of 500-700 kev obtained at the output of the proton-synchrocyclotron preinjector was investigated. The beam is designed for injection into a linear accelerator and for this reason the density distribution of ions over the phase space is the most important characteristic of the beam. Essentially, it determines the value of the current which can be captured by the linear accelerator. The transverse phase volume and the magnitude of the current were determined at a distance of approximately 1 meter from the output end of the focusing arrangement used in the linear accelerator. A proton source of the duoplasmatron type and the injector optics make it possible to obtain the crossover of the beam at this point when the maximum current is 500 ma, thereby providing for the op-Card 1/2

ACC NR: AT6031753

SOURUE CODE: UR/3092/66/000/004/0023/0029

AUTHOR: Sivkov, Yu. P.

ORG: None

TITLE: Particle grouping upon injection into a circular accelerator in the constant frequency condition

SOURCE: Moscow. Nauchno-issledovatel'skiy institut elektrofizicheskoy apparatury. Elektrofizicheskaya apparatura, no. 4, 1966, 23-29

TOPIC TAGS: circular accelerator, proton accelerator, GEV accelerator, particle accelerator, particle distribution

ABSTRACT: A grouping variation in which particles are injected into the separatriss right from the beginning of injection, but the shape of which changes in accordance with change in accelerator operating condition is reviewed. Characteristics of phase motion when f = constant and the grouping when f = constant are analyzed. The parameters characterizing the grouping for the condition f = constant for the proton accelerator ITEF at 7 GeV are cited by way of an example. Orig. art. has: 16 formulas and 4 figures.

SUB CODE: 30/SUBM DATE: None/ORIG REF: 001/OTH REF: 003

Card 1/1

KUDRIN, L.N.; SIVKOVA, A.S.; MARTYNOVA, S.S.

Fluorine, phosphorus, and trace element concentration in bone remains of fossil fishes and dolphins. Dokl. AN SSSR 142 no.4:930-932 F 162. (MIRA 15:2)

KUDRIN, L.N.; SIVKOVA, A.S.; MARTYNOVA, S.S.

TERRESPONDED TO LEGISLATION DE LA CONTRESE DEL CONTRESE DE LA CONTRESE DEL CONTRESE DE LA CONTRESE DEL CONTRESE DE LA CONTRESE DEL CONTRESE DE LA CONTRESE DEL CONTRESE DE LA CONTRESE DE

Chemistry, composition, and minor elements of mollusk shells.

Min. sbor. no.15:362-367 '61. (MIRA 15:6)

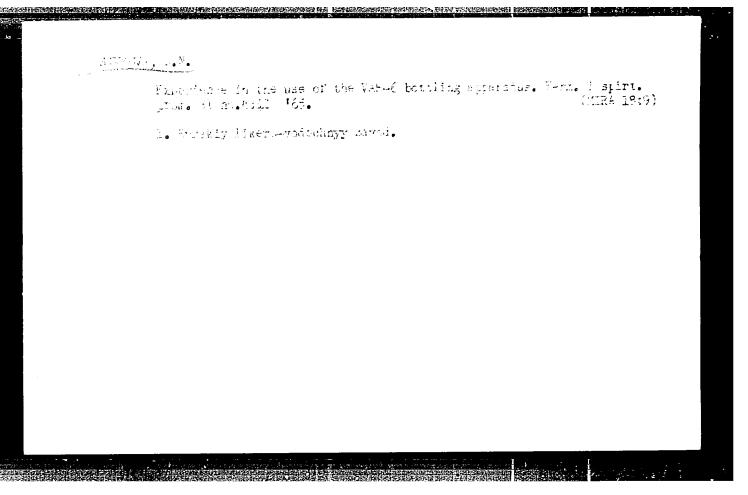
1. Gosudarstvennyy universitet imeni Ivana Franko, L'vov. (Shells)

SKULACHEV, V.P.; Prinimali uchastiye: BRAYNES, A.S.; DZHUNEDA, Kh.; SIVKOVA, B.G.

ATP and ADP as possible hydrogen carriers in the respiratory chain. Vop. med. khim. 9 no.1:99-102 Ja-F '63.

(MIRA 17:6)

l. Kafedra biokhimii zhivotnykh Moskovskogo gosudarstvennogo universiteta imeni M.V. Lomonosova, Moskva.



SAVEL'YEVA, L.A., kand.med.nauk; SIVKOVA, N.N.

Pulseless disease (Takayasu's disease) in children. Pediatriia 42. no.1:68-70 Ja'63. (MIRA 16:10)

1. Iz pediatricheskoy kliniki (rukovoditel' - prof. M.I. Olevskiy) Moskovskogo nauchno-issledovatel'skogo klinicheskogo instituta imeni M.F.Vladimirskogo (dir. - kand.med. nauk P.M.Leonenko).

(ARTERIES_DISEASES) (PULSE)

-0-70-432-1**-3**0/43 Leton de , I. P., 'iv'cove. 3. f. Preparation of Genome remains that down them them so (Estudioning monomericating on white of more in alternay) Thurnel obsheher khimii, 1999, Vol. 1, oc. 1. PYRICBICAL: pp 1182-1183 (ASSR) The methods of synthesizing concerneurised aldehydes and SHTRACT: betones (Refs 1-8) devised in the last years has made these compounds accessible and permitted the investigation of their properties. The addition of minute quantities of alkali liquor to the solution of organ)-sercury aldehyde or -ketone leads to the irreversible formation of an amorphous, unsoluble product. This explains why I. Sand and C. Genssler (Ref 3) were not able to separate the mercurized acetone, the oxidation product of the mercurized isopropyl alcohol. The synthesis of monomercurized ketones by exidation with permanganate of the easily accessible products of the affiliation of mercury salts onto the olefin bond was methodically devised. For the purpose of neutralizing the resulting alkali some acetic acid was added in advance. By the Onrd 1/2 method suggested the following monomercurised ketones were

Preparation of Monomercurized Ketones From Alkenes

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307/79-29-1-30/77

obtained deriving from propylene, pentene-1, hexene-1, heptene-1, octene-1, and styrene: acetone, methyl-propyl ketone, methyl-butyl ketone, methyl-amyl ketone, methyl-hexyl ketone and acetophenone (rields 50-50 %, Table). Monomercurized alcohols were obtained by the affiliation of mercury salts on to the alkenes and not specially separated from the reaction mass. The melting points are lower by 1-20 than those described in publications, which can be explained by the minute impurity of the mercurized alcohol that was not completely oxidized. There are 1 table and 3 references, 6 of which are Soviet.

ABROCTATION:

Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBSHITTED:

March 17, 1958

Grand 2/2

SKULACHEV, V.P.; DZHUNED, Kh.; BRAYNES, A.S.; Prinimali uchastiye: SIVKOVA, V.; PRONINA, T.; YEVTODIYENKO, Yu.; MUKHIN, V.; GOL'DMAN, A.

Oxidation and phosphorylation in mitochondria fo the embryonic muscle. Biokhimiia 29 no.4:653-661 Jl-Ag '64.

(MIRA 18:6)

1. Kafedra biokhimii zhivotnykh Moskovskogo gosudarstvennogo universiteta imeni Lomonosova.

SMOL'NIKOV, Nikelay Ivanevich; SIVKOVA, Valeriya Aleksandrevna; SMOLYAREBKO, D.A., redakter; DENISOVA, I.S., redakter; KIRSANOVA, N.A., tekhnicheskiy redakter.

[Improvement of sanitary conditions for workers pouring metal in open-hearth mills] Osderovlenie uslevii truda pri raslivke metalla v martenevskikh tsekhakh, Meskva, Isd-ve VTsSPS Prefisdat, 1955.

115 p. (Feundries--Sanitation) (MIRA 9:5)

GOFMAN, Yu.M., inzh.; SIVKOVA, V.G., inzh.

Garbide analysis of steel. Elek. sta. 30 no.3:31-33 Mr 159.

(Steel--Analysis)

(MIRA 12:5)

GOFMAN, Yu.M., inzh.; SIVKOVA, V.G., inzh.

Determination of vanadium carbide phase without the preparation of a special sample. Energetik 9 no.10:13-14 0 161. (MIRA 14:10) (Vanadium) (Steampipes)

SEVERIN, S. Ye.; SKULACHEV, V. P.; SIVKOVA, V. G.; MASLOV, S. P.

Separation of oxidation and phosphorylation at the cessation of the hypothermal state. Dokl. AN SSSR 147 no.6:1489-1492 D *62. (MIPA 16:1)

- 1. Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova.
- 2. Chlen-korrespondent AN SSSR (for Severin).

(Phosphorylation) (Oxidation) (Hypothermia)

GOFMAN, Yu.M.; SIVKOVA, V.G.

Determining of the carbide phase of vanadium using sulfonazo reagent. Trudy IREA no.25:343-346 '63.

(MIRA 18:6)

SKULACHEV, V.P.; MASLOV, S.P.; SIVKOVA, V.G.; KALINICHENKO, L.P.;

MASLOVA, G.M.

Cold uncoupling of exidation and phosphorylation in the muscles of albino mice. Biokhimita 28 no.1:70-79 Ja-F '63.

(MIRA 16:4)

1. Chair of Animal Biochemistry, State University, Moscow.

(PHOSPHORYLATION) (OXIDATION, PHYSIOLOGICAL)

(COLD--PHYSIOLOGICAL EFFECT)

LEVACHEV, M.M.; MISHUKOVA, Ye.A.; SIVKOVA, V.G.; SKULACHEV, V.P.

PROPERTY PROPERTY OF THE PROPE

Energy metabolism in a pigeon under self-heating after hypothermia. Biokhimiia 30 no.4:864-874 Jl-Ag '65. (MIRA 18:8)

l. Kafedra biokhimii zhovitnykh Gosudarstvennogo universiteta imeni M.V. Lomonosova, Moskva.

EWI(d) L 31096-60 SOURCE CODE: UR/0301/66/012/002/0147/0150 ACC NRI AP6022781 AUTHOR: Kakushkina, M. L.; Kudryashov, Yu. B.; Sivkova, V. G.; Skulachev ORG: Biological-Soil Faculty, Hoscow State University im. M. V. Lomonosov (Biologopochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta) TITLE: Mechanism of disturbance of oxidative phosphorylation in irradiated animal tissuos SOURCE: Voprosy meditsinskoy khimii. v. 12. no. 2, 1966, 147-150 TOPIC TAGS: radiation biologic effect, phosphorylation, rabbit, oxidation, fatty acid, oxidation, kinetics, cleic acid, cell physiology, biologic respiration, reaction mechanism ABSTRACT: Experimental evidence previously presented indicated that the oxidation products of fatty acids possess radiomimetic properties and are highly reactive compounds which cause the development of pathologic processes in an irradiated organism. It may be assumed that the formation of these active compound have a definite effect on the energy mechanisms of the cells. The functional activity of mitochondria in the presense of the oxidation products of fatty acids and lipids isolated from the tissues of irradiated animals was studied. The functional activity of the mitochondria was determined by measuring the ratio of phosphorylated to free oxidation in them, the P/O ratio. Upon adding oleic acid to mitochondria, the P/O ratio dropped with an increase in acid UDC: 617-001.28-008.921.8 Card 1/20915

L 31096-66 ACC NR: AP6022781

concentration. Analysis of the results of individual measurements of the rates of oxidation and phosphorylation indicated that when the cleic acid content in the reaction mixture is increased, the phosphorylation process is suppressed. The respiration rate of mitochondria remained constant in a wide range of concentrations but decreased with very high contents of cleic acid.

The inhibition of phosphorylation in conjunction with respiration was also observed in the acetone fraction of lipids from rabbit liver irradiated with a dose of 1,000 roentgens. Thus, in the tissues of the irradiated animals, compounds of the lipid nature are present which inhibit the oxidative phosphorylation process. The addition of serum albumin considerably activates oxidative phosphorylation. The conjugating effect of albumin confirms the fact that the disruption of phosphorylation caused by the lipids in the liver of irradiated animals depends on the presence of free unsaturated fatty acids. Orig. art. has: 3 figures. [JPRS]

SUB CODE: 06 / SUBM DATE: 30Aug64 / ORIG REF: 008 / OTH REF: 006

Card 2/2

S/196/62/000/021/002/007 E194/E135

Sivkova, V.V. AUTHOR:

The flow of direct current over a cylinder in a space

consisting of two conducting media TITLE:

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no. 21, 1962, 8-9, abstract 21 A 44. (Tr. Tomskogo

un-ta, 155, 1961, 96-107)

In a space consisting of two uniform media of different electrical conductivity of and og, direct current flows in a direction parallel to the plane of separation of the media. The electrical field of this current is examined for the case when the second medium contains a foreign inclusion in the form of an infinite circular cylinder of radius a and constant electrical conductivity 03 located parallel to the plane of separation at a distance H from it in a direction perpendicular to the direction of the current flow. To determine the potentials u1(x, y), u2(x, y), u3(x, y) of the resultant plane-parallel field, a conformal conversion is made as a result of which the boundary of separation of the media and the sectional contour of the cylinder Card 1/2

complete translation.

TETERYATNIKOV, Mikhail Stepanovich; SIVKOVSKIY, N.I., retsenzent; OKHOTNIKOV,
G.I., retsenzent; MAYORSKIY, G.I., redaktor; FOMKINSKIY, L.I., redaktor;
MAKRUSHIMA, A.N., redaktor izdatel'stva; BEGICHEVA, M.N., tekhnicheskiy redaktor

[Organization of navigation and the work of herbors] Organizatiia dvizheniia flota i raboty portov. Moskva, Izd-vo "Rechnoi transport,"
1956. 355 p.

(Harbors)

SIVO, J., 28 LDOS, S.

"Tasks had possibilities of the public health departments in the county councils and the chief county obstetrician in increasing the number of births. p. 84 (NEFEGESZSEGUCY, Vol. 34, no. 3, Mar. 1953, Budapest.)

SO: Monthly List of Past Muromean Accessions, Vol. 2 #8, Library of Congress, Aug. 1953, Uncl.

wive R. Skjieres limet Diago reaction ade versavek blj irubin tartalmenak kulonvalusztasara. A method for the separation of the bilirubin content of blood plasma, giving direct diagoreaction Orvosok Lapja 1947, 3/34 (1328-1331)

A new method is described fro the separate deter ination of the direct and indirect bilirubin contents of blood serum, based on the fact that the first type of pigment is adsorbable on animal charcoal while the second is not. The fractions are then tested separately by means of the diazo-reaction.

Gajdos-Paris

Soi Physiology, Biochemistry and Pharmacology, Section II, Vol. I, #1-6

KHRULEV, V.M.; GUBENKO, A.B., doktor tekhn. nauk, retsenzent;
FREYDIN, A.S., kand. tekhn. nauk, retsenzent; SKRIPOV,
B.S., kand. tekhn.nauk, retsenzent; SIVOCHKIN, F.P.,
dots., retsenzent; ZAYCHIKOVA, E.A., red.; KASIMOV, D.Ya.,
tekhn. red.

[Improving the durability of glued wooden structures and building elements] Povyshenie dolgovechnosti kleenykh dereviannykh konstruktsii i stroitel nykh detalei. Moskva, Gosstroiizdat, 1963. 113 p. (MIRA 16:8)

(Plywood)

HERSENEY, V.S.; Prinimali uchastiye: ZINEVICH, V.D.; MOROZOV, V.I.;
MUKHACHEV, V.S.; KAPRALOV, Ye.P.; KOLCHANOV, V.D.; BOGDANOV, A.V.;
OBUKHOVICH, I.I.; OSTROZHINSKIY, A.I.; KHROMOV, M.I.; SIVOCHUB, A.A.

Breaking a solid body with a high-pressure water jet. Zap. LGI
41 no.1:44-51 '59. (MIRA 16:5)

(Jets--Fluid dynamics)

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s/181/61/003/009/023/039
                                                                                                                                                                                                                                       B104/B102
                                                                                Structural changes during high-temperature creeping of copper
                                                                            Pines, B. Ya., and Sivochub, V. A.
     18,9560
                                                                                   Fizika tverdogo tela, v. 3, no. 9, 1961, 2703 - 2711
         TEXT: The authors tried to establish a difference in the deformation at lower during creening of conner just helow its melting noint and at lower
AUTHORS :
           TEAT'S The authors tried to establish a difference in the deformation and at lower during creeping of copper just below its melting point and conner not during creeping of this nursose. They made coarse-grained conner temperatures.
              during creeping of copper just below its melting point and at lower from the temperatures. For this purpose,
                 rolled copper sheet of 0.15 x 20 x 200 mm by annealing them at 1050°C under
   TITLE &
                   rolled copper sheet of U.15 x 20 x 200 mm by annealing them at 1000 under a load of \approx 7 g/mm<sup>2</sup> for about 30 minutes. From these plates monocrystalline a load of \approx 7 g/mm<sup>2</sup> for about 30 minutes. It is a large grain with paraffin samples of 20 x 60 mm were made by covering a large grain with paraffin samples of 20 x 60 mm were made by covering a large grain with paraffin samples of 20 x 60 mm were made by covering a large grain with paraffin samples of 20 x 60 mm were made by covering a large grain with paraffin samples of 20 x 60 mm were made by covering a large grain with paraffin samples of 20 x 60 mm were made by covering a large grain with paraffin samples of 20 x 60 mm were made by covering a large grain with paraffin samples of 20 x 60 mm were made by covering a large grain with paraffin samples of 20 x 60 mm were made by covering a large grain with paraffin samples of 20 x 60 mm were made by covering a large grain with paraffin samples of 20 x 60 mm were made by covering a large grain with paraffin samples of 20 x 60 mm were made by covering a large grain with paraffin samples of 20 x 60 mm were made by covering a large grain with paraffin samples of 20 x 60 mm were made by covering a large grain with paraffin samples of 20 x 60 mm were made by covering a large grain with paraffin samples of 20 x 60 mm were made by covering a large grain with paraffin samples of 20 x 60 mm were made by covering a large grain with paraffin samples of 20 x 60 mm were made by covering a large grain with paraffin samples of 20 x 60 mm were made by covering a large grain with paraffin samples of 20 x 60 mm were made by covering a large grain with paraffin samples of 20 x 60 mm were made by covering a large grain with paraffin samples of 20 x 60 mm were made by covering a large grain with paraffin samples of 20 x 60 mm were made by covering a large grain with paraffin samples and a large grain with paraffin samples and a large grain with paraffin samples and a large grain with a large grain with a large grain with a larg
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                      a load of 7 g/mm for about 30 minutes. From these plates monocrystal with paraffin a large grain with paraffin and samples of 20 x 60 mm were made by covering a large grain. The surfaces of and atching off the surrounding grains with nitric acid.
                       samples of 20 x 60 mm were made by covering a large grain with parallin of the surrounding grains with nitric acid. The surrounding grains with he faces (100) or (111). The the samples investigated coincided with the faces
                          and etching off the surrounding grains with nitric acid. The surfaces of the samples investigated coincided with the faces [100] and [110] the samples were loaded in the direction of the crystal axes
                           the samples investigated coincided with the faces (100) or [111]. The [110] in the samples were loaded in the direction of the crystal axes [100] and et al. in samples were loaded in the direction device described by B. Ya. Pines examined the samples were made with a vacuum device described by B. Ya. Pines examined the samples were examined the structural changes were examined the structural changes were examined [111]. The samples investigated coincided with the faces (100) or [111]. The property of the samples investigated coincided with the faces (100) or [111]. The property of the crystal axes [100] and [110].
                               The tests were made with a vacuum device described by B. Ya. Pines et al. in the tests were made with a vacuum device described by B. Ya. Pines et al. in the tests were examined. The structural changes were examined that the structural changes were examined to the structural changes were examined. The structural changes were examined to the structural changes and the structural changes were examined to the structural changes are structural changes. The structural changes were examined to the structural changes are structural changes and the structural changes are structural changes.
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CIA-RDP86-00513R001550920011-7" APPROVED FOR RELEASE: 08/23/2000

28089 S/181/61/003/009/023/039 B104/B102

Structural changes during ...

were obtained with a fine-focus X-ray tube (40 kv, 1.5 ma) using copper radiation. Most of the pictures were taken with a 0.3-mm slit. In some cases a microbeam of 50 μ was used. The sample surfaces were studied with an MMN-6 (MIM-6) microscope, and the micro-hardness was measured with a TMT-3 (PMT-3) instrument. The extensive results are discussed in detail. Summing ups a) At comparatively high stresses (200 - 300 g/mm^2) one or two bands of glide planes were observed in samples elongated in the [100] direction (creep rate, $10^2 - 10^3 \%/hr$) and along the [110] direction (creep rate, 10%/hr). These samples had an indistinct and split spot in their Laue patterns. b) If the load applied did not exceed 50-70 g/mm², no essential structural change could be observed even after a comparatively strong deformation (~-10%). Gliding tracks were not obtained, and the spot in the Laue pattern was distinct. Only local indentations did occur. There is obviously a creeping free of dislocations under these conditions, which is a result of pure diffusion. It is not impossible that there is also a diffusion creeping at higher loads and lower temperatures, which is covered by structural changes. Ya. I. Frenkel' is mentioned. There are 7 figures,

How we service the SP-1 electric drives. Avtom., telem. i sviaz' 6 no.6:30-32 Je '62. (MIRA 15:7)

1. Elektricheskaya tsentralizatsiya stantsii Losinoostrovskaya Moskovskoy dorogi. (Railroads—Electric equipment) (Railroads—Switches)

SIVODEDOV, V.T., starshiy elektromekhanik

Preparation and installation of the SP-1 switch drive. Avtom., telem.i sviaz' 6 no.8:33-34 Ag '62. (MIRA 15:8)

1. Elektricheskaya tsentralizatsiya stantsii Losinoostrovskaya, Moskovskoy dorogi. (Railroads—Switches) (Railroads—Electric equipment)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550920011-7"

GOLUBEVA, A.V.; NEYMARK, O.M. [deceased]; USMANOVA, H.F.; SIVOGRAKOVA, G.L.; BEZBORODKO, G.L.; MEYERZON, A.A.

ROTTONIA DE LA COMPANSION DE LA COMP

Synthesis of acenaphthylene, and its polymers and copolymers with other monomers. Plast.massy no.8:3-6 160. (MIRA 13:10) (Acenaphthylene)

GOLUBEVA, A.V.; SIVOGRAKOVA, K.A.; LYANDZBERG, G.Ya.; GORODETSKAYA, R.A.

The MEN ternary copolymers. Biul.tekh.-ekon.inform. no.12:12
'58. (Plastics) (Polymers)

(MIRA 11:12)

GOLUBEVA, A.V.; SIVOGRAKOVA, K.A.; LYANDZBERG, G.Ya.; DOYNIKOVA, S.H.

The SN-28 copolymer of styrole with acrilonitrile. Biul.
tekh.-ekon.inform. no.12:12-13 '58. (MIRA 11:12)
(Polymers) (Acrilonitrile) (Styrene)

SIVOGRAKOVA, K.A.; BASOVA, Yu.M.; BUTYRINA, N.P.; LYANDZEERG, G.Ya.

Special transparent colorless plastics. Biul.tekh.-ekon.inform.no.2:
(MIRA 12:3)

(Plastics)

为我们的时候,我们就是一个大学,我们不是在自己的人,我们就是这个人的人,我们就是一个人的人的人,我们就是一个人的人的人,我们就是一个人的人的人,也不是一个人的人 第一个人的人

> S/191/60/000/002/010/012 B027/B058

AUTHORS:

Koton, M. M., Sivograkova, K. A., Tolstikova, Z. D.,

Yeremina, E. N.

TITLE:

Production of Large Scintillometers From Plastics

PERIODICAL:

Plasticheskiye massy, 1960, No. 2, pp. 48-52

TEXT: The authors developed a method for the production of scintillometers on polystyrene basis with additions of active materials. The apparatus were made either as cylindrical blocks (10 kg weight, 220 mm diameter, 300 mm height) or as a film of a thickness of about 100 m. After various experiments, the accelerated polymerization at 200°C, i.e., a temperature higher than the hardening temperature of the polymer, proved to be the best method for the manufacture of block-shaped scintillometers. The scintillating film was produced by means of rod presses and hot drawn. The material was composed according to the formula:

Card 1/2

Production of Large Scintillometers From Plastics

S/191/60/000/002/010/012 B027/B058

1,4-di-2,5 phenyl oxazolyl benzene 0.02% per weight related to styrene. The polymerization of products of up to 1 kg was carried out in glass molds; steel molds provided with an inner coat of polytetrafluoro ethylene were used for larger devices. Siloxane liquid No. 5 which is stable was used as heat carrier and proved to be satisfactory. The basic condition for the process is a high purity of the styrene which is washed twice or three times with a 5% caustic soda solution after rectification in order to remove hydroquinone. The purification is controlled according to the styrene color. N. V. Fadeyeva, L. A. Klinkovskaya, L. M. Kirichenko, G. S. Smirnov, and A. V. Matveyev participated in the experiments. There are 3 figures and 12 references: 2 Soviet, 1 British, 1 German, 2 Canadian, and 6 US.

Card 2/2

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s/191/60/000/008/001/014 B004/B056

Colubeva, A. V., Neymark, O. M. (Deceased), Usmanova, N.F.,

Sivograkova, K. A., Bezborodko, G. L., Meyerzon, A. A.

TITLE:

AUTHORS:

Synthesis of Acenaphthylene, Its Polymers, and Its Copoly-

mers With Other Monomers

PERIODICAL:

Plasticheskiye massy, 1960, No. 8, pp. 3-6

TEXT: In the introduction, the authors give a survey of published data on the synthesis, polymerization, and copolymerization of acenaphthylene which, with the exception of a paper by V. S. Titov (Ref. 2), is based upon western papers. The authors then give a report on their experiments. The synthesis proceeded from commercial acenaphthene of the type YMTY No. 4850-54 (ChMTU No. 4850-54), and took place in the vaporous phase. As catalysts, styrene contact was used as well as the usual catalyst used for the dehydrogenation of butane. For the purpose of analyzing the reaction products, a new method developed by V. A. Balandina and Z. F. Davydova was employed: Iodination of the double bond in the presence of mercurous chloride and HCl in an alcoholic medium. This method gave the same results

Card 1/3

Synthesis of Acenaphthylene, Its Polymers, and Its Copolymers With Other Monomers

s/191/60/000/008/001/014 B004/B056

as hydrogenation on palladium and platinum black according to G. L. Bezborodko. A maximum of concentration (up to 98.5%) and yield (up to 88%) was obtained between 640 and 650°C (Fig. 1). Fig. 2 gives the concentration of acenaphthylene as a function of the feeding rate of acenaphthene in g/l catalyst. At 125 g/l the concentration was 99%. Only a feeding rate from 320 to 330 g/l is considered to be profitable. An addition of water vapor offered no advantages. The block polymerization of acenaphthylene was carried out in the presence of benzoyl peroxide, the emulsion polymerization in the presence of potassium persulfate and sulfanol. Polymers with molecular weights of 119,000 and 160,000 were obtained, which, however, could not be processed because of their brittleness. The copolymerization of acenaphthylene with styrene was carried out under the same conditions as the polymerization. The acenaphthylene content was varied between 10 and 50%. The physical, mechanical, and electrical properties are given in Table 1. Fig. 3 shows that the thermal stability of the copolymer increased with an increasing content of acenaphthylene. In Fig. 4, the molecular weight and the intrinsic viscosity of the copolymer are represented as a function of the acenaphthylene content. The copolymer with a ratio between acenaphthylene : styrene = 20 : 80, which could be processed by pressing and casting under pressure was found to have Card 2/3

Synthesis of Acenaphthylene, Its Polymers, S/191/60/000/008/001/014 and Its Copolymers With Other Monomers B004/B056

the best properties. Table 2 gives a comparison between the thermomechanical and electrical properties of the copolymer and those of the polystyrene. The dielectric properties are as good as those of polystyrene, and its thermal stability is higher by about 30°C. There are 4 figures, 2 tables, and 24 references: 2 Soviet, 9 US, 6 British, and 7 German.

Card 3/3

87643

S/191/60/000/012/002/016 B020/B066

11. 2210 als 2209

AUTHORS:

Golubeva, A. V., Usmanova, N. F., Sivograkova, K. A.

TITLE:

Copolymers of α -Methyl Styrene

PERIODICAL: Plasticheskiye massy, 1960, No. 12, pp. 4 - 6

TEXT: The present paper studies the possibility of copolymerizing α -methyl styrene with other polar and nonpolar vinyl compounds according to a radical mechanism. The properties of the copolymers obtained were investigated. For the copolymerization with α -methyl styrene, styrene, investigated. For the copolymerization with a crylantic were used. 2,5-dichloro styrene, methyl methacrylate, and acrylonitrile were used. Copolymerization was carried out by means of the emulsion method in the copolymerization was carried out by means of the emulsion method in the (Sulfanole). The monomer concentration ranged between 99.5 and 99.8%, the (Sulfanole). The monomer concentration ranged between 99.5 and 99.8%, the ratio of the hydrocarbon phase to the aqueous phase varied between 1:3 ratio of the hydrocarbon phase to the aqueous phase varied out and 1:5, the pH of the medium was 7.8 - 8. The reaction was carried out and 1:5, the pH of the medium was 7.8 - 8. The reaction was carried out and 1:5, the pH of the medium was 7.8 - 8. The reaction was carried out and 1:5, the pH of the medium was 7.8 - 8. The reaction was carried out and 1:5, the pH of the medium was 7.8 - 8. The reaction was carried out and 1:5, the pH of the medium was 7.8 - 8. The reaction was carried out and 1:5, the pH of the medium was 7.8 - 8. The reaction was carried out and 1:5, the pH of the medium was 7.8 - 8. The reaction was carried out and 1:5, the pH of the medium was 7.8 - 8. The reaction was carried out and 1:5, the pH of the medium was 7.8 - 8. The reaction was carried out and 1:5, the pH of the medium was 7.8 - 8. The reaction was carried out and 1:5, the pH of the medium was 7.8 - 8. The reaction was carried out and 1:5, the pH of the medium was 7.8 - 8. The reaction was carried out and 1:5, the pH of the medium was 7.8 - 8. The reaction was carried out and 1:5, the pH of the medium was 7.8 - 8. The reaction was carried out and 1:5, the pH of the medium was 7.8 - 8. The reaction was carried out the ph of the medium was 7.8 - 8. The react

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Copolymers of a-Methyl Styrene

S/191/60/000/012/002/016 B020/B066

remaining copolymers chemically. When increasing the α -methyl styrene content in the initial monomer mixture, copolymerization is retarded, and the finite conversion degree drops (Fig. 1). In this connection, also the intrinsic viscosity of copolymers decreases (Fig.2). The heat resistance of copolymers drops with increasing α -methyl styrene content (Fig.3). In the copolymerization of three monomers - α -methyl styrene, methyl methacrylate and acrylonitrile - in the ratio of 35.70:50.65:13.65 mole%, the heat resistance increases considerably as compared with that of the ternary MCH(MSN) copolymer which contains styrene instead of α -methyl styrene. The copolymers of α -methyl styrene with styrene or methyl methacrylate (ratio 1:2.5 moles) exhibited satisfactory mechanical properties and higher heat resistance than polystyrene and polymethyl methacrylate. The dielectric properties were similar to those of polystyrene. The authors also studied the conditions of copolymerization of α -methyl styrene with styrene, methyl methacrylate and acrylonitrile by the suspension method. Polyvinyl alcohol and Solvar (partly acetylated polyvinyl alcohol) were used as stabilizers for the suspension in quantities of 0.1 - 1%, and benzoyl peroxide, diisobutyric acid azodinitrile and benzoyl peroxide mixed with tert .- butyl peroxide (in a Card 2/4

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Copolymers of $\alpha ext{-Methyl}$ Styrene

S/191/60/000/012/002/016 B020/B066

ratio of 1:1) in quantities of 0.5 - 1% as initiators. The experiments were carried out in the stream of an inert gas at 70 - 90°C. Under these conditions, copolymerization of a-methyl styrene with styrene, as well as with acrylonitrile, proceeded slowly. Previously, a bulk polymerization of the monomers had to be carried out at 80°C up to a conversion of 35%, and a suspension polymerization of the pre-polymer obtained. Even when using this combined block-suspension polymerization, the degree of conversion of the monomers was only 96 - 97%. The dimensional stability under heat of the copolymers according to Vicat was only 115°C, and they were very brittle. Nor was the above stability of the ternary copolymers obtained under the same conditions any higher. The bulk copolymerization of α -methyl styrene with styrene, acrylonitrile and methyl methacrylate at different ratios of the monomers (from 0.25 to 1 mole of α -methyl styrene in the initial monomer mixture), with benzoyl peroxide, disobutyric acid azo-dinitrile and cobalt naphthenate, possibly with a mixture of benzoyl peroxide with tert.-butyl peroxide (at a ratio of 1:1) as initiators, at 70 - 200°C for 200 hours in glass ampuls which had been previously deaerated, yielded hard, transparent, colorless or - in the case of copolymerization with acrylonitrile - yellow polymers with a heat

Card 3/4

8764^{.3}.

Copolymers of α -Methyl Styrene

S/191/60/000/012/002/016 B020/B066

resistance according to Vicat of about 120°C. There are 3 figures, 1 table, and 7 references: 1 Soviet, 4 US, 1 Canadian, and 1 British.

Card 4/4

IYANDZBERG, German Yakovlevich; BAZLOVA, Tamara Petrovna; BUTYRINA,
Natal'ya Petrovna; GOLUHEVA, Anna Vasil'yevna; PECHENKIN,
Aleksandr Leont'yevich; SIVOGRAKOVA, Klavdiya Andreyevna;
AL'PERIN, G.R., red.; FREGER, D.F., red. izd-va; GVIRTS, V.L.,
tekhn. red.

[New L-PT acrylic plastics for pressure modling and extrusion]
Novyi akriloplast L-PT dlia litia pod davleniem i ekstruzii.
Leningrad, 1961. 21 p. (Leningradskii Dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Sinteticheskie materialy, no.9)

(Plastics)

5.8 0 ⁴ AUTROR: January A. T. Danyer, C. A., Danner, B. P. AUTROR: January A. T. Danyer, C. A., Danner, B. P. AUTROR: January A. T. Danyer, C. A., Danner, B. P. A mappaint and the sort Caracining big-solteniar polysyres Internal plantishming among of containing big-solteniar polysyres Internal plantishming a gett Caracining big-solteniar polysyres Internal plantishming a gett Caracining big-solteniar polysyres Internal plantishming A. T. Danyer, C. A., Danner, B. P. Internal plantishming A. T. Danyer, C. A., Danner, B. Internal plantishming A. T. Danyer, C. Internal plantishming A. T. Internal plantishming A. Internal plantishming	SIVCE		4/6		135.1	4		19-50-0	ゞ	े तहे हो हो है	<u>, i e a fina e e</u>	-,						`>	ζ,		
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S. 8 04- L. S. Sander, A. V., Scanyer, C. A. AUTHORS: J. Sanders, V. B. Sanders, C. A. Sanders, C. Sand		89341 8/191/61/000/ 8101/8205	Gamenova, M. K. A. ne high-molecu	161, 3-7	ntages of suspe e conditions fo al, mechanical, method of suspe ce of initiator it acylation of	in atmospherical attention of a granulated		rization time,						initiators at linetrated in T polymerization time, hr		_	ō ;	و ي	22	12	52
15.8104 AUTHORS: Vermains, Te. N. Sirogi to the grant commercial particles type assay, in permitted to the grant commercial than the clean the polyment of the grant commercial than the clean the polyment of the grant commercial than the polyment of the grant commercial than the polyment of the grant commercial than the saturation of the strain polymentariation was done in a social commercial than the saturation of the grant commercial than the saturation of the saturation	1		G. A.	obtain: 0. 1, 19	at adval avorable physicated the influentand real	nitroge 6, and v biaining	!	polymet temper	\$ \$ 5. E		ee5.	- 61 01 01 0		r, te the	=	Ę	= 3	=	Ξ	=	<u> </u>
	!		(48 ,	TITLE: A suspension sethod for neoventes; Plasticheskiye sassy, D	TERIODISE. TEXT In view of the great commercial toom, the authors studied the most tion, the suthors studied the most tion, the suthor solves properties. In doing so, the tion. A study has been made of the tion.	print, polymerization was done in a paragraph of 15 or 11 so storage to attract. The authors also at 0 are authorized in Table 11	Card 1/6	Initiator	tert-butyl bydroperoxide syclobaxasone peroxida tert-butyl peroxide	scatone percilds sethyl-wihyl ketone percilds dimethyl perciy-dicarbonate	tert-butyl personators tert-butyl personators tert-butyl personators osprylyl personatos	laury 1 peroxide methacryly 1 peroxide moetyl peroxide n-chlorobensoy 1 peroxide	oinnamoji peroxide peraceto meld benroji peroxide meniopiyrio moid dinitrile Card 7/0:	The effect of various compositions with Golver serving as a stabilize Composition of initiators	benzogl peroxide + leopropyl acetone peroxide		bensoyl percenta + circulaters perterephthalate bensoyl percenta + tert-butyl	perbensonia peroxida + propuna di-	tert-buryl peroxids + benzoyl	sert-butyl peroxide + propane di- tert-butyl perox de	Card 3/6

•	. ,	<u>`</u>	86,700	116,000	132.000	80,900	91,900		90,000			Capac-	laborator 11thin	A com-	block poly- atyrene	90,000	76. 1.100	5005	owns erread	weight old,	110n.		-		
	00/100/00	B101/8205	granul es		:	:	granul es	emul s ton	Granules		()	200,600 y v iny 1	ulta of	The drive polymer containing only 0.3% of the inital monomer. I com- parison between these symmes and those obtained by block polymerization is presented in Table 1	Ž.	1			Suspension polymerization of styrens in the presence of polystyrens was studied in addition. Ordinary styrens and styrens thermally polymerized up to 30% sers further polymerized in an equeous suspension. Using I am	molecular um poly- merylic a	stabiling cid, or (Delvar wers found to be the most favorable stabilizate. The polystyres fraction with a particle size of 0.5-0.1 mm assumed to 60-00% of the total amount of the bolyse of the state is amount of the polyser. There are it tables and 10 references.			
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			=======================================	4:1	Ę	Ę	Ξ	=	; ;	.	10 (1), 1	er (part	with a st 130°C	only 0.5	with: 0.5% I 0.3% I + II	12	22 22 0.00 0.000	2.5	rene in tyrene a	rs. Po nyl slood hyl seth	le, etc. orylate	favorab 0.5-0.1	100.		
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		den •	tert-bu	tert-bu	tert-bu	tert-bu	dari-buryl perbenioste + propane-	tert-bu	tert-bu	Card 4/6	Experia	tert-bu	100,000	parison te pres		thereal thereal	secording to marrens reallience, kg-cm/cm/2 bending strength, kg/cm/ ten d ag 100cps	Card 5/	Ouspens studied	of 140,	6.10 tin	Cracio fractio total	2 Bovie	Cer4 6/6	I
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21141

S/191/61/000/004/002/009 B110/B208

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2209,1372

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AUTHORS:

Usmanova, N. F., Golubeva, A. V., Vansheydt, A. A.,

Sivograkova, K. A.

TITLE:

Synthesis and properties of $\alpha-$ and $\beta-$ vinyl naphthalenes. Report II. Polymers of vinyl naphthalenes and their

copolymers with styrene

PERIODICAL:

Plasticheskiye massy, no. 4, 1961, 6-8

TEXT: Polymerization of monovinyl naphthalenes, and the properties of polymers that are more resistant to heat than polystyrene are as yet little known. P. P. Shorygin, I. V. Shorygina, Yu. S. Zal'kind, and S. A. Zonis found that d-vinyl naphthalene forms transparent, brittle polymers softening at $100-110^{\circ}\text{C}$ with a molecular weight of approximately 5000. The poly-d-vinyl naphthalene obtained by S. Loshaek was also brittle and low-molecular. The d-vinyl naphthalene copolymerized by M. M. Koton with styrene and acrylic esters had also a low mechanical strength. The copolymers of β -vinyl naphthalene with styrene, methyl methacrylate, and methyl acrylate, studied by C. C. Price et al., had molecular weights of 10000-40000. The

21141 3/191/61/000/004/002/009

B110/B208

Synthesis and properties of ...

Card 2/8

authors had previously shown (Ref. 9: N. F. Ustanova et al. Plast massy no. 3 (1961)) that α - and β -vinyl naphthalenes may be prepared separately in good yields and simply from naphthalene. M- and β -vinyl naphthalenes (99.6-99.8 %) were polymerized by the block (I) and emulsion methods (II). In the case of (I), polymerization was performed in the presence of 0.5%benzoyl peroxide for 100 hr in vacuo at temperatures gradually increasing from 60 to 130°C up to 98 % conversion. The polymers obtained in a yield of 97 % were reprecipitated from methanol dissolved in benzene in order to remove the monomers. In the case of (II), polymerization was carried out in the presence of potassium persulfate and sodium oleate in an \mathtt{N}_2 atmosphere. The polymer was coagulated with 1 % formic acid and separated in the form of powder with a yield of 97-99 %. The α and β -polymers thus prepared softened at 160°C, then formed a solid, transparent mass, and dissolved completely in benzene, toluene, and dichloro-ethane. The X-polymer, above all, is brittler than polystyrene, owing to a greater rigidity of its chains. To increase the mechanical strength, styrene links are to be incorporated into the molecule by copolymerization. This was also accomplished by block and emulsion polymerizations at different ratios of the monomers (10-90 %). Intrinsic viscosity, average molecular

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21141 s/191/61/000/004/002/009 B110/B208

Synthesis and properties of...

weight, softening point, specific impact strength, and dielectric properties (tan) and & at 10° cps and 20°C) were determined. & had a constant value of 2.6, and tan [increased with increasing naphthalene content from 2.10-4 to 5.10-4. Intrinsic viscosity and molecular weight of the copolymer of d-vinyl naphthalene (Figs. 1 and 2) decreased fivefold by substituting naphthalene links for 40 % of the benzene links. In the β -compound, the decrease takes place more slowly, as its copolymers are high-molecular. The molecular weight of β-vinyl naphthalene copolymers with 40 (I) to 80 % (II) naphthalene content was 108000 (I) - 96000 (II), while that of &-vinyl naphthalene copolymers was only 15000 (I) - 10000 (II). The mechanical strength of a β -copolymer with 40 % β -vinyl naphthalene is sufficient for practical application. The heat resistance of γ - and β -copolymers linearly increases from 113 to 150°C on transition from polystyrene to polyvinyl naphthalene. The emulsion method is especially suited for the preparation of copolymers with 30 % β -vinyl naphthalene of optimum molecular weight and mechanical strength. I. A. Arbuzova is mentioned. There are 6 figures, 1 table, and 9 references: 5 Soviet-bloc and 4 non-Soviet-bloc. The 3 references to English-language publications read as follows: H. Mark, Chem. Eng. News, 27, 138 (1949); S. Loshaek, Card 3/8

21141 s/191/61/000/004/002/009 B110/B208

Synthesis and properties of...

E. Broderick, J. Polymer Sci., 39, 223 (1959); C. C. Price et al.

J. Polymer Sci., 11, 575 (1953).

Legend to Table: Properties of polymers of α - and β -vinyl naphthalenes. 1) Indices; 2) molecular weight: 3) degree of polymerization: 4) specific impact strength, kg·cm/cm3; 5) heat resistance according to Vicat, °C; 6) tan 8 at 10⁶ cps; 7) & at 10⁶ cps; 8) method of polymerization; 9) block method; 10) emulsion method; 11) very brittle; 12) note: the study was performed with pressed samples.

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<u> </u>	С) бло	яныя	(Сэмульсионный								
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Степень полимеризации . Удельная ударная вяз- кость, кГ-см/см ³	11 Очень	1,6	ı	2,5							
7 теплостойкость по Вика, °С 5 tgb при 104 герц	хрупкий	160,5 4-5.10-4	3.10-4	3-4·10-4 2.6							

12 Примечание. Испытания

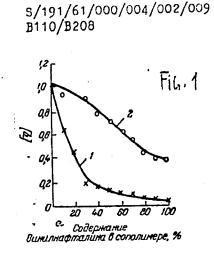
Card 4/8

CIA-RDP86-00513R001550920011-7" APPROVED FOR RELEASE: 08/23/2000

Synthesis and properties of ...

Legend to Fig. 1: Dependence of the intrinsic viscosity of block copolymers of \mathcal{L} and β -vinyl naphthalene with styrene on their composition.

1) copolymer with \mathcal{L} -vinyl naphthalene;
2) copolymer with β -vinyl naphthalene;
a) content of vinyl naphthalene in the copolymer, β .

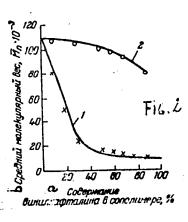


Card 5/8

Synthesis and properties of ...

Legend to Fig. 2: Dependence of the molecular weight of block copolymers of β -vinyl naphthalenes with styrene on their composition. Notations as in Fig. 1. a) Content of vinyl naphthalene in the copolymer, %; b) mean molecular weight, Mn·10⁻³.

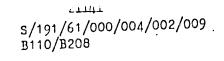
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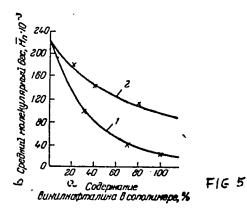


Card 6/8

Synthesis and properties of...

Legend to Fig. 5: Dependence of the molecular weight of emulsion copolymers of α - and β -vinyl naphthalenes on their composition. Notations as in Fig. 1. a) Content of vinyl naphthalene in the copolymer, β ; b) mean molecular weight, Mn·10⁻³.

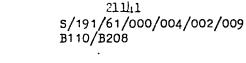


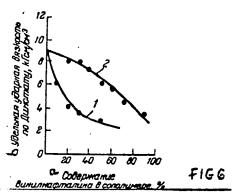


Card 7/8

Synthesis and properties of ...

Legend to Fig. 6: Effect of emulsion copolymers of α - and β -vinyl naphthalenes with styrene on their specific i impact strength. Notations as in Fig. 1. a) Content of vinyl naphthalene in the copolymer, %: b) specific impact strength, kg cm/cm³.





Card 8/8

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550920011-7"

USMANOVA, N.F.; GOLUBEVA, A.V.; VANSHEYDT, A.A.; SIVOGRAKOVA, K.A.; DOYNIKOVA, S.N.

L 13366-63 EPF(c)/EWP(j)/BDS/EWT(m)/ES(s)-2 AFFTC/ASD/ESD-3/ SSD Pr-4/Pc-4/Pt-4 RM/WW ACCESSION NR: AP3003300 S/0191/63/000/ 007/0008/0009

AUTHORS: Golubeva, A. V.; Tolstikova, Z. D.; Sivograkova, K. A.; Bezborodko, G. L.

9

76

TITIE: The synthesis and polymerization of styrole derivatives. Synthesis and polymerization of methylstyrole derivatives

SOURCE: Plasticheskiye massy*, no. 7, 1963, 8-9

TOPIC TAGS: methylstyrole, dimethylstyrole, synthesis, polymerization, bromotoluene, magnesium, methylphenol, paraxylene

ABSTRACT: o-methylstyrole and 2,5-dimethylstyrole were synthesized and studied in detail. o-methylstyrole was synthesized from o-bromotoluene using organic magnesium compound and a subsequent oxidation with ethylene oxide, followed by hydrolysis of the obtained o-methylphenol alcohol over KOH 2,5-dimethylstyrole was synthesized from paraxylene by the method of 2,5-dimethylacetophenon. The polymers of o-methylstyrole and 2,5-dimethylstyrole were obtained by block and emulsion methods. Their physico-mechanical and dielectric properties were studied. It was determined that o-methylstyrole and 2,5-dimethylstyrole polymers possess

Card 1/2

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ACCESSION NR: AP3003300

dielectric properties equal to those of polystyrole. However, they possess higher thermal stability (112-125C) and a high electric rigidity (34-37 kv/mm). These factors distinguish them not only from polystyrole, but also from the polymers of chloro-derivatives of styrole. The stability of dielectric properties of the polymers have been established for a wide temperature interval of 20 to 140C. The molecular weight was determined by the osmotic method. "The authors are grateful to L. N. Veselovskaya for her determination of molecular weights."

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 30Jul63

EMCL: 00

SUB CODE: MA

NO REF SOV: 008

OTHER: 006

Card 2/2

ACCESSION NR: AP4012182

5/0191/64/000/002/0008/0008

AUTHOR: Usmanova, N. F.; Golubeva, A. V.; Bulatova, V. H.; Sivograkova, K. A.

TITLE: Styrene copolymer SAH

SOURCE: Plasticheskiye massy*, no. 2, 1964, 7-8

TOPIC TAGS: SAM styrene copolymer, physical mechanical property, dielectric property, thermal stability, injection molding, compression molding, styrene copolymer

ABSTRACT: A study of the physicomechanical properties of copolymer SAM shows that this plastic, in comparison with styrene, has better heat stability (by about 25°) and maintains the other physicomechanical properties of styrene. Copolymer SAM has high dielectric properties over an extended time and temperature interval. It may be processed by regular methods applicable to thermoplastics. The concopolymer SAM are presented. "Investigation of the dielectric properties of the copolymer was conducted by Candidate of physical and Comparison modeling."

Card 2/2

RM/WW RPL Pc-4/Pr-4/Ps-4 EWT (m)/EPF(c)/EPR/EWP(j)/T L 42047-65 UR/0286/65/000/007/0102/0102 ACCESSION NR: AP5010916 AUTHORS: Golubeva, A. V.; Sivograkova, K. A.; Butyrina, N. P.; Vlasova, L. D. TITLE: A method for obtaining a casting plastic. Class 39, No. 169783/5 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 7, 1955, 102 TOPIC TAGS: plastic, casting, polymerization, methylmethacrylate, ethylacrylate, thermal stability, alpha methylatyrene, diisopropylxanthogen disulfide ABSTRACT: This Author Certificate presents a method for obtaining a casting plastic by suspension polymerization of methylmethacrylate and ethylacrylate in the presence of regulators, initiators, and a suspension stabilizer. To improve the thermal stability of the plastic, copolymerization is conducted in the presence of 2-2.5% of OC -methylstyrene and 0.05-0.1% of disopropylxanthogen disulfide. ASSOCIATION: none SUB CODE: SUBMITTED: 16Jul62 OTHER: NO REF SOV: 000

- + Δ1	498-66 (A) ENT(m)/ENP(1)/ENP(t)/ENP(b) JD/RM SOURCE CODE: UR/0286/65/000/020/0064/0064	
100	SOURCE CODE: UR/0280/07/0007	
1	44.52 Salanora 44. F.: Sergeyeva, A. A.;	
- 1	AUTHORS: Ardove A. V.: Luk yanov, N. P. Israelin,	-
100	K. A.; Kinter, I. P.; Shalina, V. P.	
-4	N. A.; Kindly 20 101	,
.	ORG: none	i
-	TITLE: Surfacing for metallic and reinforced concrete decks. Class 39, No. 175643	1
.	TITLE: Surfacing for metallic and reinforced concrete decarring SSR / Announced by Organization of the State Committee on Ship Construction SSR / Announced by Organization of the State Committee on Ship Construction SSR / Announced by Organization of the State Committee on Ship Construction SSR / Announced by Organization of the State Committee on Ship Construction SSR / Announced by Organization of the State Committee on Ship Construction SSR / Announced by Organization of the State Committee on Ship Construction SSR / Announced by Organization of the State Committee on Ship Construction SSR / Announced by Organization of the State Committee on Ship Construction SSR / Announced by Organization of the State Committee on Ship Construction SSR / Announced by Organization of the State Committee on Ship Construction SSR / Announced by Organization of the State Committee on Ship Construction SSR / Announced by Organization of the State Committee on Ship Construction SSR / Announced by Organization of the State Committee on Ship Construction SSR / Announced by Organization of the State Committee on Ship Construction SSR / Announced by Organization of the State Committee on Ship Construction (SSR / Announced State Committee on Ship Construction SSR / Announced State Committee on Ship Construction (SSR / Announced State Committee	1
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	n 33-teni isobrataniy i tovarnykh snakov, no. 20, 1909, 04	
	SOURCE: Byulleten 12000 or a constant, motel surfacing,	1
	TOPIC TAGS: polymer, copolymer, rubber, mineral filler, pigment, metal surfacing,	1
	reinforced concrete, sarpentalic and	ł
	ABSTRACT: This Author Certificate presents a surfacing material for metallic and abstract: This Author Certificate presents a surfacing material is based on a binding polymer to decks. The surfacing material is based on a binding polymer	1
	ABSTRACT: This Author Certificate presents a surfacing material to a binding polymer reinforced concrete decks. The surfacing material is based on a binding polymer reinforced concrete decks. The surfacing material is based on a binding polymer and on mineral fillers and pigments. To increase its resistance to abrasion and and on mineral fillers and pigments. To increase its resistance to abrasion and and on mineral fillers and pigments, a copolymer of styrole with nitrylacrylic	<u>_</u>
	corrosion and to reduce its slipperiness, a copolymer of corrosion and to reduce its slipperiness, a copolymer of corrosion and to reduce its slipperiness, a copolymer of corrosion and to reduce its slipperiness, a copolymer of corrosion and to reduce its slipperiness, a copolymer of corrosion and to reduce its slipperiness, a copolymer of corrosion and to reduce its slipperiness, a copolymer of corrosion and to reduce its slipperiness, a copolymer of corrosion and to reduce its slipperiness, a copolymer of corrosion and to reduce its slipperiness, a copolymer of corrosion and to reduce its slipperiness, a copolymer of corrosion and to reduce its slipperiness, a copolymer of corrosion and to reduce its slipperiness, a copolymer of corrosion and cor	;
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	BVK UDG: 678.746.2—139.678.046.3 678.047	
	Cord 1/1	

SOUNCE COMD: 110-415-60/000/009/0072/0073

INVENTOR: Sivograkova, K. A.; Bulyrina, N. P.; Lovyagina, L. D.

ORG: none

ACCINED TO TARREST

TITLE: Method of obtaining a light-scattering organic glass. Class 39, No. 181276 [announced by State Scientific Research Institute of Polymerized Plastics and Experimental Plant (Gosudarstvennyy nauchno-issledovatel' skiy institut polimerizatsionnykh plastmass i eksperimental' nyy zavod)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 9, 1966, 72-73

TOPIC TAGS: organic glass, polymethylmethacrylate, light scattering, copolymer, opacifier

ABSTRACT: An Author Certificate has been issued for a method of obtaining a light-scattering organic glass with a base of polymethylmethacrylate by blending it with an opacifier. Followed by granulation. To increase the strength of the organic glass and to improve its casting and light-scattering properties, a mixture of trifluorochloro-

Card 1/2

UDC: 678.744.335-196.2:678.473.2

ACC NR: AP6015657	2
ethylene copolymer with vinylidene fluoride and barium sulfate is used as the opacifier. [Translation]	[NT]
SUB CODE: 11/,SUBM DATE: 09Nov64/	
07/	
	j.
Cord 12 AM	

L 46259-66 EWT(m)/T/EW	P(j) IJP(c) WW/RM/JWD A, N) SOURCE CODE: UR/O A, N. V.; Yeremina, Ye. N. Kitner, I. P.; Shashina,	413/66/000/016/0092/0092 ; Sivograkova, K. A.;
Bezborodko, G. L.;	Kitner, I. P.; Shashina,	<u> </u>
ORG: none	Acryl	onitrile copolymers.
TITLE: Preparative Class 39, No. 1850	method for styrene acryl	znaki, no. 16,
SOURCE: Izobreten 1966, 92 TOPIC TAGS: styre	iya, promyshlennyye obrazo ne,acrylonitrile,copolyme er, impact resistant mate	r, suspension copolymeriza- rial
ABSTRACT: An Auth	or Certificate has been a carylonitrile copolymers. product, the monomers ar allow nitrile rubber.	To impart impact resistance copolymerized in suspension [BO]
SUB CODE: 11/ S	JBM DATE: 13Apr62/	
Card 1/1 mjs	UDC: 678.746.22	-139

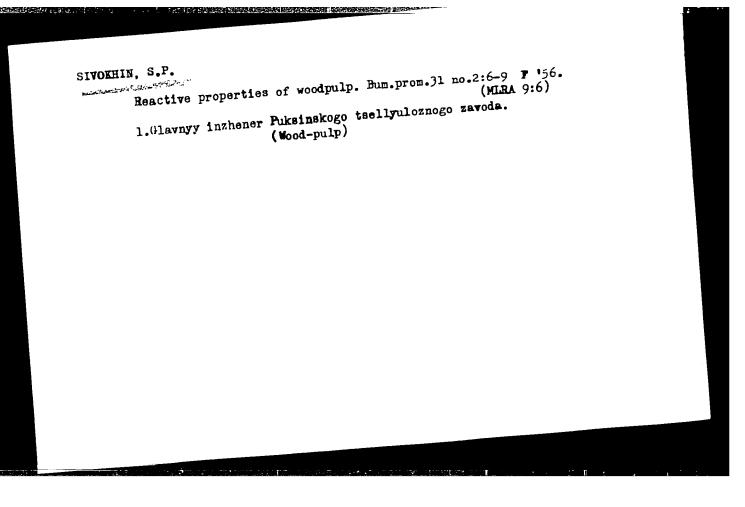
IJP(c) EWT(m)/EWP(j) L 01804-67 SOURCE CODE: UR/0413/66/000/016/0092/0093 AP6030604 (AN) ACC NRI INVENTOR: Golubeva, A. V.; Yeremina, Ye. N.; Sivograkova Bezborodko, G. L.; Kitner, I. P.; Shishina, V. P. ORG: none TITLE: Method of obtaining shock-resistant plasticized rubber. Class 39, No. 185056 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 16, 1966, 92-93 TOPIC TAGS: butadiene styrene rubber, copolymerization, rubber, plasticized rubber ABSTRACT: An Author Certificate has been issued for a method of obtaining a shock-resistant plasticized rabber from a styrene copolymer, acrylnitrile, and butadieneacrylnitrile rubber by means of suspension copolymerization of the proper n.onomers and rubber. To increase the light stability and heat resistance of plasticized rubber, the process is carried out in the presence of butylacrylate NII rubber, which is taken in amounts of 2-5%. [Translation] UDC: 678. 746. 22-139 SUB CODE: 11/ SUBM DATE: 13Apr62/

PETROV, Vladimir Arsent'yevich; KOLMAKOV, Nikolay Alekseyevich; EPEL'MAN, Gilel' Grigor'yevich. Prinimali uchastiye: NIKITIN, V.V., MOROZOV, I.I.; SIVOKHA, N.V.; UTROBINA, N.I.; NIKITINA, N.N.; PANKOV, N.N.; BAUSHEV, N.P.; TATEVOSOV, K.G., dots.; LIPKIND, L.M.; LEBEDEVA, A.K., inzh.-ekon.; VIL'DAVSKIY, I.M., dots., retsenzent; VOLKOV, S.A., kand. ekon. nauk, dots., red.; CHFAS, M.A., red. izd-va; PETERSON, M.M., tekhn. red.

[Contimuous conveyer methods used in the lct production of composite machines] Potochmo-konveiernye metody v seriino m proizvodstve slozhnykh mashin; iz opyta Leningradskogo zavoda poligraficheskikh mashin. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit, lit-ry, 1961. 130 p.

1. Rabotniki Leningradskogo zavoda poligraficheskikh mashin(for Nikitin, Morozov, Sivokha, Utrobina, Nikitina, Pankov, Baushev). 2. Leningradskiy inzhenerno-ekonomicheskiy institut (for Tatevosov, Lipkind, Lebedeva).

(Leningrad--Printing machinery and supplies) (Factory management)



Increasing the collected amount of selenium slime. Bum.prom.36 (MIRA 14:3) no.1:24-25 '61.

1. Arkhangel'skiy kombinat. (Selenium) (Sulfur dioxide)

SIVOKHIN, S.P.; CHUYKO, V.A., inzh.

Using sulfate soap for the manufacture of paraffin emulsions. Bum.prom. 37 no.9:25-26 S '62. (MIRA 15:9)

ALEXANDER CHESTON AND METERS AND A SECOND

1. Arkhangel'skiy kombinat. 2. Glavnyy tekhnolog Arkhangel'skogo kombinata (for Sivokhin).

(Emulsions (Chemistry)) (Hardboard)

SIVOKHIN, S.P.

Shops for the purification of sewage in the Archangel Combine. Bum. prom. 38 no.2:28 F '63. (MIRA 16:2)

1. Glavny; tekhnolog Arkhangel skogo imbinata. (Archangel - Woodpulp in the try) (Bewage - Purification)

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DYBTSIN, A.A.; SIVOKHIN, S.P.

On the road toward quality improvement. Bum.prom. 38 no.9:5-3
S '63.

(MIRA 16:11)

1. Arkhangel'skiy kombinat.
```

SIVOKHINA, N. B.

Dissertation: "Stereophotogrammetric Survey of Oren-Cut Mining." Cand Tech Sci, Moscow Mining Inst imeni I. V. Stalin, 29 Jun 54. (Vechernyaya Moskva, Moscow, 18 Jun 54)

SO: SUM 318, 23 Dec 1954

SIVOKHINA, N. B.

"Problem of Application of Stereophotogrammetric Survey in Open-Cut Mines". Nauch. tr. Mosk. gorn. in-ta, No. 12, pp 92-105, 1954.

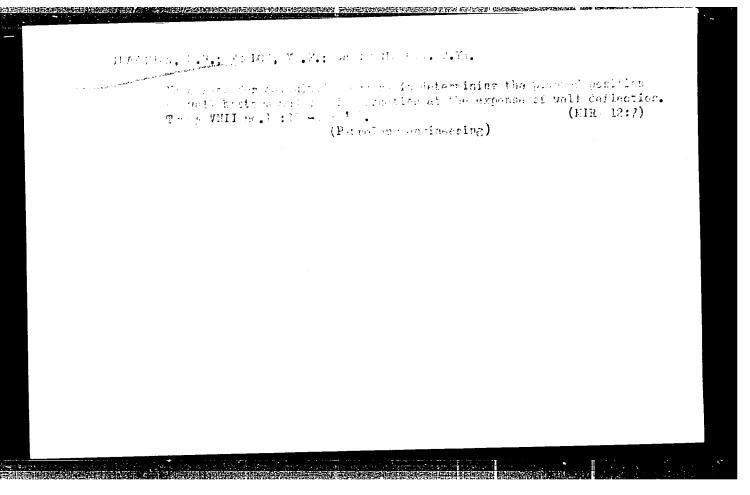
Several aerial survey methods are discussed and the stereophotogrammetric method is found to be the best for open-cut mining. Its advantage consists in easy distance measure with up to 1/1,000 relative error; in the marking of a point on a map with an \pm 0.23 m error. Its disadvantage is the dependence on the quality of the negative and on the visibility. (RZhAstr, No. 1, 1956)

SO: Sum No 884, 9 Apr 1956

SIVOKHIMA, N.B.; FROLOV, Ye.F.

Determining the accuracy of well surveying measurements and calculating (MIMA 10:11)
errors. Trudy VMII no.11:321-339 '57. (MIMA 10:11)

(0:11 wells--Measurement)



VASIL'YEV, Yu.S.; SIVOKHINA, N.B.; FROLOV, Ye.F.; CHERNOGIAZOVA, T.Ya.

Permissible deflections of bottom holes from the planned position; a topic for discussion. Neft. khoz. 39 no.4:14-20 (MIRA 14:6) Ap '61.

(Oil well drilling)

SIVOKHINA, N.B.; FROLOV, Ye.F.; CHERNOGLAZOVA, T.Ya.

Intersecting of the shafts of deflected wells. Trudy VNII no.36:

(MIRA 15:11)

13-18 '62. (Oil well drilling)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550920011-7"

SIVOKHINA, N.B.; CHERNOGLAZOVA, T.Ya.

Evaluating the accuracy of determining the angle of the deflecting unit in a well by the graphic and mechanical methods. Trudy VMII (MIRA 15:11) no.36:27-32 '62. (Oil well drilling)

Permissible curvature of shafts at the point of intersection of deflected wells. Trudy VNII no.36:33-37 '62. (MIRA 15:11) (Oil well drilling)

FROLOV, Ye.F.; SIVOKHINA, N.B.; DEMENT'YEV, L.F.; KOCHETOV, M.N.; MOLOTOV, N.A. Preliminary method of evaluating the accuracy of calculating petroleum reserves by the volume method. Trudy VNII no.36:38-56

162.

(Petroleum geology)

(MIRA 15:11)

VASIL'YEV, Yu.S.; SIVOKHINA, N.B.; BRONZOV, A.S.

Permissible deflections of well holes. Neft. khoz. 40 no.8:8-13
Ag '62.

(MIRA 17:2)

KALININ, Anatoliy Georgiyevich; VASIL'YEV, Yuriy Sergeyevich; BRONZOV, Anatoliy Samsonovich; SIVOKHINA, N.B., red.; LATUKHINA, Ye.I., ved. red.; POLOSINA, A.S., tekhn. red.

[Orienting deflecting drilling systems] Orientirovanie otkloniaiushchikh sistem v skvazhinakh. Moskva, Gostoptekhizdat, 1963. 149 p. (MIRA 16:10)

VASIL'YEV, Yuriy Sergeyevich; SIVOKHINA, Nataliya Borisovna;

BRONZOV, Anatoliy Samsonovich; KALININ, A.G., red.;

LATUKHINA, Ye.I., ved. red.; VCRONOVA, V.V., tekhn.red.

[Tolerable declination of boreholes from the design] Dopustimye otkloneniia stvolov skvazhin ot proekta. Moskva,

Gostoptekhizdat, 1963. 152 p. (MIRA 16:10)

(Boring) (Tolerance (Engineering))

WABILTEV, Yu.S., BRONZAV, A.S., SIVOKHINA, N.B.

Permissible change in the azimuth and angle of gradient in the drilling of slant holes. Neft, khoz, 41 no. 12:6-11 D '63. (MIRA 17:6)

A. F. H. H. H. B., . ngh.; GUL'DENBAL'F, A.F., kend. tekhn. nauk: SIVOLEC, A.A., 112h.

Flactric device of an automatic machine for welding two wire leads with metallized resistor caps. Svar.proizv. no.12:33-34 D *64. (MIRA 18:1)

l. Vsesoyuznyy nauchno-issledovatel † skiy institut elektrosvarochnogo oborudovaniya.

SIVOKOBYLENKO, V.F., inzh.

Experience in the adjustment of a protection system against singlephase contacts to ground of the stator winding of an electric generator. Energetik 10 no.5:23-24 My *62. (MIRA 15:5) (Electric generators)

SIVOKOBYL'SKIY, A.I., otv. za vyp.; PILIPENKO, T.P., red.; LUKASH, Tekhn. red.

massage abactor and the control of t

[Uses of wood laminates compressed wood andtextile chips in machinery manufacture] Primenenie drevesnykh sloistykh plastikov, pressovannoi drevesiny i tekstilinoi kroshki v mashinostroenii. Kiev, In-t tekhn. informatsii, 1962. 61 p. (MIRA 16:4)

1. Ukraine. Gosudarstvennyy komitet po koordinatsii nauchnoissledovatel'skikh rabot.

(Wood, Compressed) (Laminated plastics)
(Machinery industry)

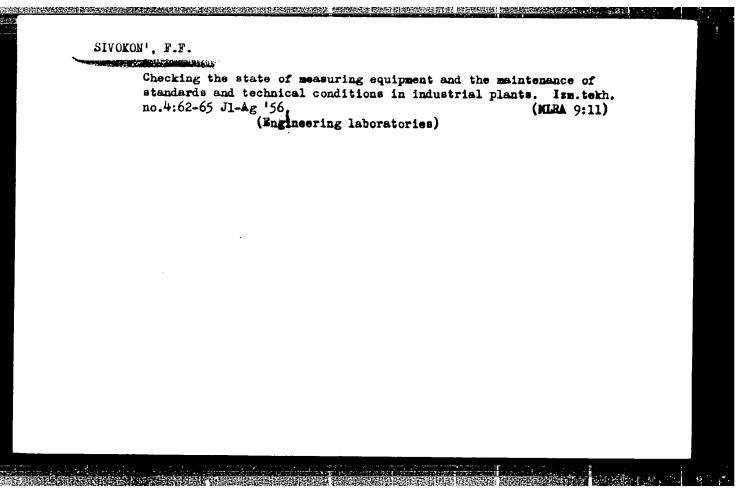
SIVOKOBYL'SKIY, A.I.; MATVEYEVA, V.M.

Diesel engines operating with natural gas. Mashinostroenie no.2:
124-125 Mr-Ap '{2. (MIRA 15:4)

(Diesel engines)

Bending pipes by the spinning and stretching method. Mashinostreenie no.5:121-123 S-0 '62. (MIRA 16:1)

(Pipe bending)



SIVOKON', F.F.

Testing and inspecting weights, measures and instruments at the place of their use. Izm.tekh.no.5:66-68 S-0 '56. (MIRA 10:2)

(Measuring instruments—Testing)

SOV/115-59-7-26/33

25(1), 28(2)

AUTHOR:

Sivokon', F.F.

TITLE:

The Inspection of Measuring Instruments in Rural Areas of Molda-

via

PERIODICAL:

Izmeritel'naya tekhnika, 1959, Nr 7, pp 57-58 (USSR)

ABSTRACT:

The author reviews the activity of the Moldavskaya gosudarstvennaya kontrol'naya laboratoriya po izmeritel'noy tekhnike (Moldavian State Control Laboratory for Measuring Instruments) after its reorganization which was performed during the past years. One large measuring instrument repair organization was created by combining the instrument repair department of the plant "Avtodetal" and two balance repair shops of "Moldavpotrebsoyuz" with "Vesomerpribor", which is the principal measuring instrument repair of the Moldavian SSR. The plant received a number of vehicles for performing repairs of balances and measuring instruments at kolkhozes and other agricultural enterprises. The author describes briefly the activity of the teams which travel for inspection and maintenance of measuring instruments to kolkhozes and

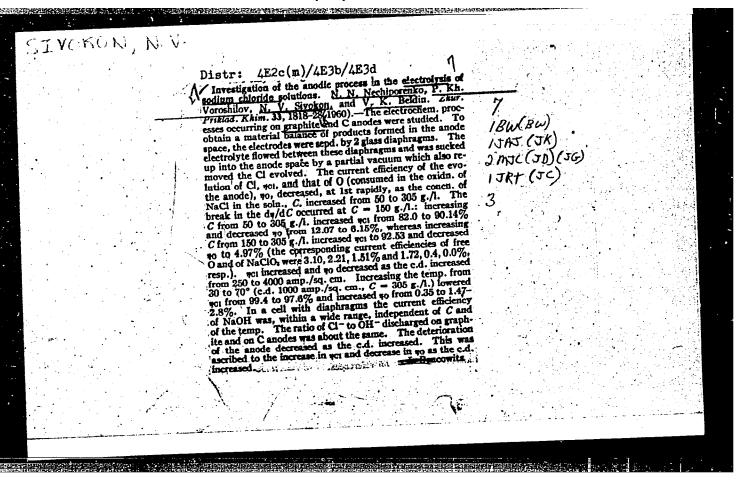
Card 1/2

sov/115-59-7-26/33

The Inspection of Measuring Instruments in Rural Areas of Moldavia

sovkhozes. Dozens of letters submitted to the editorial board of this periodical prove the practicability of this measure: that the repair of measuring instruments should be performed directly at the user.

card 2/2



s/070/62/007/006/005/020 E132/E435

AUTHORS:

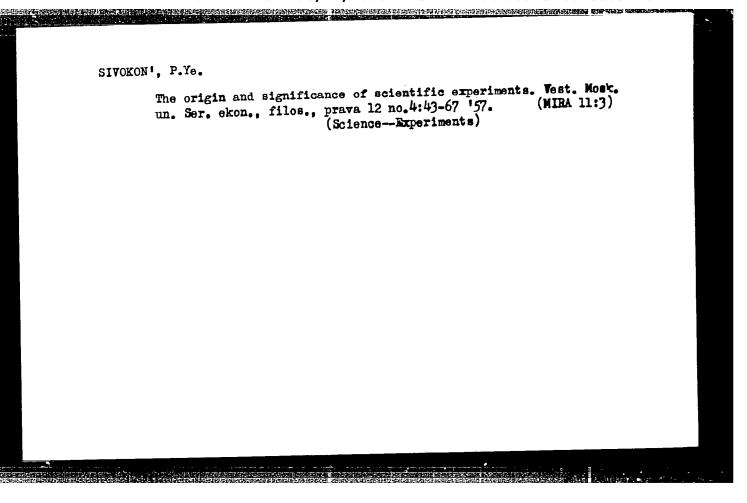
Matyushenko, N.N., Verkhorobin, L.F., Pugachev, N.S.,

Sivokon', N.V.

The crystal structures of the higher beryllides of

molybdenum, tungsten and rhenium

PERIODICAL: Kristallografiya, v.7, no.6, 1962, 862-864 The highest beryllides of Mo, W and Re were made by allowing refined beryllium to diffuse at above 1100°C into these metals until saturation was reached. Sectioning a foil incompletely saturated showed distinct layers corresponding to Mo-MoBe2-NoBe12-NoBe22. A foil of Mo, 0.2 mm thick, was completely saturated. X-ray powder photographs were taken (spacings tabulated) and corresponded to a cubic structure with Chemical analysis a = 11.63 (No), 11.63 (W) and 11.54 Å (Re). A structure with the space group 07 = Fd3m was proposed having 8Mo in (b), 16Be in (c), Observed and in (d), 48Be in (f) and 96Be in (h) positions. calculated structure factors were compared for the assumed parameters x (Be in f) = 0.125 and x (Be in h) = 0. After . Card 1/2



PYE. SIVUKON,

25-2-19/43

AUTHOR:

Sivokon, P. Ye., Candidate of Philosophical Sciences

TITLE:

Irreconcilibility of Knowledge and Faith (Znaniye i vera -

neprimirimy)

PERIODICAL:

Nauka i Zhizn', 1958, # 2, pp 53 - 58 (USSR)

ABSTRACT:

In this article the author states that science and religion are incompatible. He gives a historical review of attempts made by leading scientists and theologians to reconcile religious and scientific concepts - all these efforts were doomed to fail because of contradictions.

There are two sketches.

AVAILABLE:

Library of Congress

Card 1/1

SOV-25-58-10-23/48

AUTHOR: Sivokon', P. Ye., Candidate of Philosophical Sciences

TITLE: Reason Against Mysticism (Razum protiv mistiki)

PERIODICAL: Nauka i zhizn', 1958, Nr 10, p 51 (USSR)

ABSTRACT: The article contains a criticism of the book "Rationalism

in Theory and Practice" written by Archibald Robertson.

1. Physics--Theory

Card 1/1

Science and religion are irreconcilable. Mauka i zhizn' 25 no.2:

(MIRA 11:3)
53-58 F '58.

(Religion and science)